

IN THE CLAIMS

Listing of claims:

1. (Previously Presented) A single facer corrugator belt in combination with a corrugated paper board machine, said belt comprising:

a base structure, said base structure having an inside and an outside surface that contacts paper board and a machine or running direction and a cross machine direction, said base structure being formed by machine direction yarns and cross machine direction yarns;

a liquid polymeric resin coating applied and cured on said outside surface of said base structure, wherein said polymeric resin coating forms a distinct layer on said outside surface of said base structure; and

a plurality of grooves formed in said polymeric resin coating;

wherein said plurality of grooves aid in improved paper board release and increased rate of board moisture removal.

2. (Previously Presented) The combination of claim 1, wherein said grooves are continuous.

3. (Previously Presented) The combination of claim 1, wherein said grooves are discontinuous.

4. (Previously Presented) The combination of claim 1 further comprising at least one layer of fibers needled into said base structure and extending at least partially there through.

5. (Previously Presented) The combination of claim 4, wherein the needled fibers are

impregnated with polymeric resin.

6. (Previously Presented) The combination of claim 1 wherein said grooves extend partially through said polymeric resin coating, said polymeric resin coating forming an impermeable layer on said outside surface.

7. (Withdrawn) The single facer corrugator belt of claim 1, wherein said grooves extend through said polymeric resin layer forming a permeable layer on said at least one surface.

8. (Previously Presented) The combination of claim 1, wherein the base structure is woven, non-woven, knitted, mesh, braided, spiral-linked or spiral wound.

9. (Withdrawn) A single facer corrugator belt comprising: a base structure, said base structure having an inside and an outside surface and a machine or running direction and a cross machine direction, said base structure being formed by machine direction yarns and cross machine direction yarns; a polymeric resin layer formed on said base structure; and a plurality of holes formed in at least one surface of said base structure.

10. (Withdrawn) The single facer corrugator belt of claim 9 further comprising at least one layer of fibers needled into said base structure and extending at least partially there through.

11. (Withdrawn) The single facer corrugator belt of claim 10, wherein the needled fibers are impregnated with polymeric resin.

12. (Withdrawn) The single facer corrugator belt of claim 9 wherein said holes extend partially through said polymeric resin layer, said polymeric resin layer forming an impermeable layer on said at least one surface.

13. (Withdrawn) The single facer corrugator belt of claim 9, wherein said holes extend through said polymeric resin layer forming a permeable layer on said at least one surface.

14. (Withdrawn) The single facer corrugator belt of claim 9, wherein the holes extend completely through said belt.

15. (Withdrawn) The single facer corrugator belt of claim 9, wherein the base structure is woven, non-woven, knitted, mesh, braided, spiral-linked or spiral wound.

16. (Original) The combination of claim 1 wherein said grooves are arranged in rows wherein a line intersecting the ends of each groove in a row is substantially perpendicular to the machine or cross-machine direction.

17. (Original) The combination of claim 1 wherein said grooves are arranged in rows wherein a line intersecting the ends of each groove in a row is at an angle to the machine or cross machine direction.

18. (Original) The combination of claim 17 wherein the angle is between 25 and 30 degrees.

19. (Original) The combination of claim 1 wherein grooves are formed in staggered rows.
20. (Original) The combination of claim 1 wherein said grooves comprise a plurality of non-continuous and continuous grooves.
21. (Previously Presented) The combination of claim 1 wherein said grooves comprise a first straight portion followed by a zigzag portion, followed by a second straight portion.
22. (Original) The combination of claim 1 wherein said grooves comprise a number of first portions having a first width and a number of second portions having a second width that is smaller than the first width.
23. (Original) The combination of claim 1 wherein said grooves are shaped having an opening which is smaller than a remaining portion of the groove.